

SIMAKINA, Ye.G.

Photograph of the meteor of December 6-7, 1950. Biol.VAGO no.23:
57-58 '58. (MIRA 11:11)

1. Moskovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo
obshchestva, meteornyy otdel.
(Meteors--December)

SIMAKINA, Ye.G.

Altitude of a Perseid meteor. Biul.Vago no.23:59-60 '58.
(MIRA 11:11)

(Meteors--August)

ZOTKIN, I.T. Prinimali uchastiye: MARTYHENKO, V.V.; SIMAKINA, Ye.G.;
TERENT'YEVA, A.K.; KHOTINOK, B.L. PREDYNSKIY, V.V., otv.red.;
BERKGAUT, V.G., red.isd-vs; YEPIFANOVA, L., tekhn.red.

[Instructions for observing meteors] Instruktsiia dlia nabliu-
denii meteorov. Moskva, Izd-vo Akad.nauk SSSR, 1961. 52 p.
(MIRA 14:4)

(Meteors)

SIMAKOV, A.N.; SEMENOVICH, V.V.; DIKENSHTEYN, G.Kh.

Prospecting for oil and gas fields in the central and eastern
parts of the Turkmen S.S.R. Sov.geol. 2 no.1:16-25 Ja '59.
(MIRA 12:4)

1. Upravleniye geologii i okhrany neдр pri Sovete Ministrov
Turkmeniskoy SSR i Vsesoyuznyy nauchno-issledovatel'skiy geolo-
gorazvedochnyy neftyanoy institut.

(Turkmenistan--Petroleum geology)
(Turkmenistan--Gas, Natural--Geology)

SEMENOVICH, V.V.; SIMAKOV, A.N.

Conference on trends in oil and gas prospecting in the western
regions of Central Asia. Sov.geol. 2 no.4:151-153 Ap '59.
(MIRA 12:7)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov Turkm.
SSR.

(Soviet Central Asia--Petroleum geology)

(Soviet Central Asia--Gas, Natural--Geology)

Sinakov, Aleksandr Nikitovich; 11. BSHNE, Yakov Yakovlevich;
Iashchenko, A. I. red.

[Carrousel-type arrangement for milking parlors is
convenient and advantageous] "Karusel" - udobno i
vygodno. Moskva, Mosk. rasochil, 1964. 40 p.

(BIA 17:10)

1. Direktor sovkhoza "Vpered" Mo...kovskoy oblasti (for
Sinakov). 2. Glavnyy zootekhnik sovkhoza "Vpered" Mo-
skovskoy oblasti (for Iashchenko).

SILAYEVA, V.I.; Prinsipalni uchastnye: SIDORIN, I.I., prof.; SIMAKOV, A.V.;
LAZUTIN, D.D.

MVTU-1 aluminum foundry alloy. Alum. splavy.no.1:14-21 '63.
(MIRA 16:11)

SIMAKOV, B.D., kand.tekhn.nauk

Air exchange in foundry moulding shops during a dispersed casting system [with summary in English]. Gig. i san. 22 no.11:24-30 N '57.
(MIRA 11:1)

1. Iz sanitarno-epidemiologicheskoy stantsii Moskv

(VENTILATION

in foundry moulding shops during dispersed method of casting (Rus))

(INDUSTRIAL HYGIENE

ventilation in foundry moulding shops during dispersed method of casting (Rus))

SELEKOV, S.

"A Correct Version of the History of Soviet Aviation", Vest. Vozdush. Flota, No. 4, 1949.

SIMAKOV, B., polkovnik.

Pilot Ivan Pavlov, hero of the Civil War. Vest.Vozd.Fl.34 no.11:
68-75 N '51. (MLBA 8:3)
(Pavlov, Ivan)

SIMAKOV, B.

The Soviet air fleet.

p. 16
Vol. 2, no. 6, June 1956
ARIFILE PATRIUL
Bucuresti

30: Monthly List of East European Accessions (EEAL), LC, Vol, 5, no. 12
December 1956

SIMAKOV, B.

The best parachutists of the world met in Moscow. p. 15. ARIPILE PATRIEI.
(Asociatia Voluntara pentru Sprijinirea Apararii Patriei) Bucuresti.
Vol. 2, no. 8, Aug. 1956.

SOURCE: East European Acessions List, (EEAL), Library of Congress,
Vol. 5, No. 11, November, 1956,

Simakov, Boris Leonidovich

PHASE I BOOK EXPLOITATION

388

Simakov, Boris Leonidovich, Col., and Shipilov, Ivan Fedorovich, Col.

Vozdushnyy flot Strany Sovetov; kratkiy ocherk istorii aviatsii nashey Rodiny. (The Air Force of the Land of Soviets; a Brief Historical Study of Aviation in Our Native Land) Moscow, Voen. izd-vo Min-va obor. SSSR, 1958. 485 p.

Ed. (title page): Andreyev, Ye. S., Major General, Engineering-Technical Service, Professor; Ed. (inside book): Gordeyev, N. P.; Tech. Ed.: Myasnikova, T. F.

PURPOSE: The book is intended for a wide circle of readers including students of aviation schools, flying and technical personnel of the Soviet Air Force, and for Soviet youth.

COVERAGE: This book describes the development of Russian aviation from its birth to the present day. The authors cover such subjects

Card 1/4

The Air Force of the Land of Soviets (Cont.)

388

as the following: leading men in the development of Soviet aviation who have made numerous contributions to Soviet aeronautical science and technology; the progressive adaptation of aviation to military purposes; the role of the Soviet people and of the Communist Party in the creation of the aviation industry and in the development of outstanding aviation engineering; the victories won by Soviet airmen at the front during the civil war and World War II; the development of Soviet aviation after World War II. Approximately 560 names of personalities connected with all fields of Russian aeronautics are mentioned, and an alphabetical index of their names is given. The book contains 210 photographs of outstanding men and aircraft and it lists 128 outstanding historical events from 1754 to 1957. The bibliography consists of 9 Soviet references.

Card 2/4

The Air Force of the Land of Soviets (Cont.) 388

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AVAILABLE: Library of Congress	
Card 4/4	IMS/jmr 7-14-58

SIMAKOV, B.

Inventor of the first airplane. Kryl.rod. 11 no.3:5 Nr '60.
(MIRA 13:5
(Mozhaiskii, Aleksandr Fedorovich, 1825-1890)

SIMAKOV, B.L.

"In Arctic skies" by Z.A.Sorokin. Reviewed by B.L.Simakov. Vest.
Vozd.Fl. no.3:85-87 Mr '61. (MIRA 14:6)
(Russia, Northern—World War, 1939-1945—Aerial operations)
(Sorokin, Z.A.)

SIMAKOV, B.

"Fighter airplanes" by A.V.Vorozheikin. Reviewed by B. Simakov.
Vest. Vozd. Fl. no.11:84-86 N '61. (MIRA 15:2)
(Halhaiin Gol, Battle of, 1939) (Vorozheikin, A.V.)

SIMAKOV, B.

Powerful Soviet aviation. Voen. znan. 33 no.7:22-23 J1 '62.
(MIRA 15:6)
(Aeronautics)

KRAVTSOV, V.I.; SIMAKOV, B.V.

"Galvanostatic Study of Electrochemical Reactions at Instantaneous Changes in the Current Density."

Report presented at the 11th meeting CITCE, Intl. Comm. of Electrochemical Thermodynamics and Kinetics, Moscow, 19-25 Aug 63.

The University, Leningrad, U.S.S.R.

RE VIKOV, V. I.; SIBAKOV, R. V.

Kinetics of electrode processes in the system chloroplatinate
ion-chloroplatinite ion. Vest. IGU 19 no.10:90-100 '64.
(MIRA 17:7)

KRAVTSOV, V.I.; SIMAKOV, B.V.

Effect of chlorine ions on the adsorption of oxygen on platinum,
rhodium, and iridium. Vest. LGU 20 no.4:103-105 '65.

(MIRA 18:4)

KRAVTSOV, V.I., SLEKOV, B.V.

Kinetics of electrode processes in the chloroplatinate ion - chloroplatinite
ion system. Vest. LGU 20 no.10:76-85 '65. (MIRA 18:7)

SIMAKOV, D. P.		1ST AND 2ND SERIES		PROCESSING AND PROPERTIES		NO. 111 111 111	
CA		19					
<p>Device for charging a glass-melting furnace with glass spheres. D. P. Simakov and I. A. Il'inski. U.S.S.R. 07,107, 500. 30. 1968. This device is particularly adapted for feeding a glass-melting furnace in the production of glass fibers. M. Hovch</p>							
ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION				OCTOBER 1968			
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SIMAKOV, D. P. CA		Automatic feeder for glass-melting tanks. D. P. Simakov, U.S.S.R. 60,150, Aug. 31, 1947. The feeder is automatically controlled by the level of the molten glass in the tank. M. Howch		19
ASB SLA METALLURGICAL LITERATURE CLASSIFICATION		OBLITATION		
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GALUSHKIN, A.P.; GUR'YEVA, Yu.M.; SIMAKOV, D.P.

Changing glass-forming automatic machines from manual to mechanized
operation. Leg.prom. 14 no.4:33-34 Ap '54. (MLRA 7:6)
(Glass manufacture)

L 54736-65 EIT(c)/EPR/EPA(s)-2/ENT(a)/ENT(1)/ENT(b)/ENT(c) P1-4/Tr-4/Ps-4/Pt-7
 10/54

ACCESSION NR: AP5015562

UR/0286/65/000/008/0119/0119
 666.189.211 62
 8

AUTHOR: Spkol'nikov, Ya. A.; Polik, B. M.; Karakhanidi, N. G.; Ivanov, P. K.; Roher,
U.; Ulybyshev, V. V.; Alen'kin, A. T.; Bugrova, N. N.; Simakov, D. P.; Shchipin,
I. Ye.; Gur'yeva, Yu. N.; Yefimova, M. I.; Nechayeva, Ye. B.; Yesilkina, K. N.;
Ivanova, A. I.; Davn, E. P.; Nabatov, V. G.; Nevoevskaya, Ye. A.; Kukin, Ye. B.;
Malashov, V. H.; Gama, L. B.

TITLE: Glass for glass fibers. Class 32, No. 170369 15

SOURCE: Eyulleten' izobreteniy i tovarnykh znakov, no. 8, 1965, 119

TOPIC TAGG: glass, glass fiber

ABSTRACT: An Author Certificate has been issued for a glass suitable for making glass fibers. To increase chemical durability, to prevent corrosion of alloys of aluminum and other light metals, and to improve processability, the glass is formulated to contain: 58-63% SiO₂, 2-4% B₂O₃, 6-8% Al₂O₃, 0.5-1.5% F₂O₃, 4-6% ZrO₂, 6-8% CaO, 12-13% Na₂O, and 1.5-2% K₂O. [6M]

ASSOCIATION: none

Cord 1/2

CHERNYAK, M.G.; ASLANOVA, M.S.; VOL'SKAYA, S.Z.; KUTUKOV, S.S.;
SIMAKOV, D.P.; MAYDUS, G.G.; BOVKUNENKO, A.N.; KOVALEV, N.N.;
SHKOL'NIKOV, Ya.A.; ZHIVOV, L.G.; KOVALEV, N.P.; KOZHUKHOVA,
N.V.; KOROLEVA, A.Ye.; VINOGRADOVA, A.M.; OSIPOVA, O.M.;
RADALOVA, E.I.; BRONSHTEYN, Z.I.; L'VOV, B.S.; KRYUCHKOV,
N.N.; BLOKH, K.I.; MASHINSKAYA, N.I., red.

[Continuous filament glass fibers; technology fundamentals
and their properties] Nepreryvnoe stekliannoe volokno; osnovy
tekhnologii i svoistva. Moskva, Khimiya, 1965. 319 p.
(MIRA 18:8)

SIMAKOV, F. F.

Doc Tech Sci

Dissertation: "Investigation of the Effect of Crankgear Design on the
Amplitude of Torsional Oscillations of an Engine Crankshaft." 3/4/50

Moscow Order of the Labor Red Banner Higher Technical School imeni N. E. Bauman

FF Vocheryaya Moskva
Sum 71

SIMAKOV, F. F.

USSR/ Miscellaneous - Automobile engines

Card 1/1 : Pub. 12 - 2/15

Authors : Simakov, F. F., Cand. of Techn. Sc.

Title : About Automobile Engines

Periodical : Avt. trakt. prom. 2, 4-9, Feb 1954

Abstract : Critical review of a report by S. B. Chistozvonov, entitled, "Comparison of the Technical-Economical Characteristics of Automobile Engines", is presented. The report, written under the directives of the 19-th congress of the Communist Party of the USSR, deals mostly in the economical aspects of steam, gas-turbine, Diesel, internal combustion and electric engines and motors for autos, trucks and tractors. Sixteen USSR references (1936-1954). Graphs; drawings,

Institution: The Bauman Higher Technical Institute, Moscow

Submitted :

SIMAKOV, F.F., kandidat tekhnicheskikh nauk.

Kinematics of the crankshaft and connecting rod mechanism. [Trudy]
MVTU no.25:121 147 '54. (MLRA 7:10)
(Crank and crankshafts) (Machinery, Kinematics of)

ORLIN, A.S., professor; VYRUBOV, D.N.; KOSTYGOV, N.I.; LEBEDEV, S.Ye.
[deceased]; ROGANOV, S.G.; SIMAKOV, F.F.; CHURSIN, M.M.; PETROV,
V.A., professor, retsenezent [deceased]; PONOMAREVA, K.A., redaktor;
MODEL', B.I., tekhnicheskii redaktor

[Internal combustion engines] Dvigateli vnutrennego sgoraniia. Pod
red. A.S.Orlina. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.
lit-ry. Vol.2. [Design and calculations] Konstruktsii i raschet.
1955. 534 p. (MLRA 9:8)
(Gas and oil engines)

AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk; BABKIN, S.I., kandidat tekhnicheskikh nauk; BALAKSHIN, B.S., doktor tekhnicheskikh nauk, professor; BEISEL'MAN, R.D., inzhener; BELVAYEV, V.H., kandidat tekhnicheskikh nauk; BEHEZINA, N.I., inzhener; BIRGER, I.A., doktor tekhnicheskikh nauk; BOGUSLAVSKIY, Yu.M., kandidat tekhnicheskikh nauk; BOHOVICH, L.S., kandidat tekhnicheskikh nauk; GONIKBERG, Yu.M., inzhener; GORDON, V.O., professor; GORODETSKIY, I. Ye., doktor tekhnicheskikh nauk, professor; GROMAN, M.B., inzhener; DIKER, Ya.I., kandidat tekhnicheskikh nauk; DOSCHATOV, V.V., inzhener; IVANOV, A.G., kandidat tekhnicheskikh nauk; KINASHVILI, R.S., doktor tekhnicheskikh nauk, professor; KRU-TIKOV, I.P., kandidat tekhnicheskikh nauk; LEVENSON, Ye.M., inzhener; MAZYRIN, I.V. inzhener; MARTYNOV, A.D., kandidat tekhnicheskikh nauk; NIBERG, N.Ya., kandidat tekhnicheskikh nauk; NIKOLAYEV, G.A., doktor tekhnicheskikh nauk, professor; PETRUSHEVICH, A.I., doktor tekhnicheskikh nauk; POZDNYAKOV, S.N., dotsent; PONOMAREV, S.D., doktor tekhnicheskikh nauk, professor; PRONIN, B.A. kandidat tekhnicheskikh nauk; RYSHKOV, D.N., doktor tekhnicheskikh nauk, professor; SATEL', B.A., doktor tekhnicheskikh nauk, professor; SIMAKOV, F.F., kandidat tekhnicheskikh nauk; SLOBODKIN, M.S., inzhener; SPITSYN, N.A., doktor tekhnicheskikh nauk, professor; STOLBIN, G.B., kandidat tekhnicheskikh nauk; TAYTS, B.A., doktor tekhnicheskikh nauk; CHERNYSHEV, H.A., kandidat tekhnicheskikh nauk; SHNEYDEROVICH, R.M., kandidat tekhnicheskikh nauk;

(Continued on next card)

AL'SHITS, I.Ya., kandidat tekhnicheskikh nauk (and others)..... Card 2.

cheskikh nauk, KYDINOV, V.Ya., kandidat tekhnicheskikh nauk;
ERLIKH, L.B., kandidat tekhnicheskikh nauk; ACHERKAN, N.S.,
doktor tekhnicheskikh nauk, professor, redaktor; MARKUS, M.Ye.,
inzhener, redaktor; KARGANOV, V.G., inzhener, redaktor; SOKOLOVA,
T.F., tekhnicheskiiy redaktor.

[Mechanical engineer's manual; in 6 volumes] Spravochnik mashino-
stroitel'ia; v shesti tomakh. Izd.2-e, ispr. 1 dop. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit. lit-ry, Vol.4, 1955. 851 p.
(Mechanical engineering) (MLRA 8:12)

SIMAKOV, F.F., kand. tekhn. nauk.

Investigating torsional systems. [Trudy] MVTU no.83:58-92 '58.
(Torsion) (MIRA 11:6)

of May, 1957, p. 5. See also "Study of Termination of
1957, 1958. 22-10 (10-11-1957) (10-11-1958). The Order of
1957 and 1958 of the Department of the Interior School in
1.1.1957, 1958 (10-11-1957, 1958)

ORLIN, A.S., prof.; VYRUBOV, D.N.; KRUGLOV, M.C.; ROGANOV, S.G.;
SEMAKOV, F.F.; CHURSID, M.M.; GALANOVA, M.S., red.izd-va;
SOKOLOVA, T.F., tekhn. red.

[Internal combustion engines]Dvigateli vnutrennego sgoraniia.
Pod red. A.S.Orlina. Moskva, Mashgiz. Vol.2.[Design and
construction]Konstruktsiia i raschet. Izd.2., perer. i dop.
1962. 379 p. (MIRA 15:11)
(Gas and oil engines--Design)

SIMAKOV, F.F., doktor tekhn.nauk, prof.

Forced vibrations of a system with n degrees of freedom. Izv.vys.
ucheb.zav.; mashinostr. no.6:123-131 '63. (MIRA 16:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni Baumana.

1. The first part of the report is a summary of the

information received from the source of the information. It is

(SIC: 10:10)

the second part of the report is a summary of the information

L 00897-66 EWT(m)/ENP(w)/ENP(f)/ENA(d)/T-2/ENP(t)/ENP(z)/ENP(b' EM/MJW/JD/GS

ACCESSION NR: AT5017699

UR/0000/65/000/000/0067/0081

AUTHOR: Simakov, F. F.

TITLE: Dissipation of energy during system vibration 24

SOURCE: Dvigateli vnutrennego sgoraniya (Internal combustion engines); sbornik rabot. Moscow, Izd-vo Mashinostroyeniye, 1965, 67-81

TOPIC TAGS: energy dissipation, engine friction, engine vibration, energy dissipation factor/ 45 steel, 20 steel, 35KhGS steel, 40KhA steel, 40G steel

ABSTRACT: Dissipation of energy (due to both external forces and internal material losses) in vibrating systems and, in particular, in rotating internal combustion engines is considered. The external resistances are due to friction between moving parts, hydrodynamic or hydraulic film resistances, and aerodynamic resistances of parts moving in air; the internal losses are due to the hysteresis loops of elastically deformed engine parts such as the crankshaft. Experimentally it has been established that all external resistive torques can be expressed as $M_i = M_0 + \xi \Omega^z$

(where M_0 , ξ , z = constants; Ω = average angular velocity). For internal combustion engines $z = 1$, and the average friction pressure becomes $p_f = (s + b\omega_n) \text{ kg/cm}^2$

(where ω_n = average piston speed - m/sec; a, b = constants). For carburetor engines Card 1/4

L 00897-66

ACCESSION NR: AT5017699

$a = 0.3-0.35 \text{ kg/cm}^2$, $b = 0.1-0.14 \text{ kg/cm}^2 \cdot \text{sec/m}$, for fast diesels $a = 0.65-0.9$; $b = 0.14-0.19$. If one defines $C_i = \frac{M_i}{P_i} = \frac{iV_h}{\pi X_i}$, (where i - number of cylinders; V_h - cylinder volume - cm^3 ; X_i - 2 or 4 stroke); then one can write

$$\xi_i = \frac{\pi}{\omega} C_i b = \frac{2R}{\pi} C_i b = \frac{4}{\pi^2} \cdot \frac{i}{X_i} b F_n R^2 \text{ kg} \cdot \text{cm} \cdot \text{sec.}$$

$$P_i = \frac{4}{\pi^2} \frac{i}{X_i} b \text{ kg} \cdot \text{sec/cm}^3$$

(where ξ is defined as $M_i = M_a + \xi \omega$). Values of p_ξ are given for various engine configurations. For example: $p_\xi = 0.852 \times 10^{-3}$, 0.485×10^{-3} , and $1.03 \times 10^{-3} \text{ kg sec/cm}^3$ respectively for 4-stroke, 6- and 4-cylinder engines and for 4-stroke 6-cylinder tractor engines. Approximately 12 other values with their references are cited. A lengthy discussion is presented on the part played by the external losses (particularly at resonance speeds) in establishing an operating speed at which the load plus the loss torques equal the available work from the engine. The coefficient of energy dissipation in the material due to elastic deformations can be obtained by measuring the decay of the vibration amplitudes while vibrating without external torques and is defined as $\psi_i = \psi_i = \frac{V_{i+1}}{V_i} = 1 - \frac{\lambda_{i+1}^2}{\lambda_i^2}$

Card 2/4

L 00897-66

ACCESSION NR: AT5017699

(where λ_1 and λ_{i+1} - amplitudes of i^{th} and $i+1$ cycles). These coefficients were experimentally investigated for different materials and are shown in Fig. 1 on the Enclosure as a function of stress level. Orig. art. has: 5 figures, 1 table and 22 formulas.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 01

SUB CODE: PR

NO REF SOV: 008

OTHER: 000

Card 3/4

L 00897-66

ACCESSION NR: AT5017699

ENCLOSURE: 01

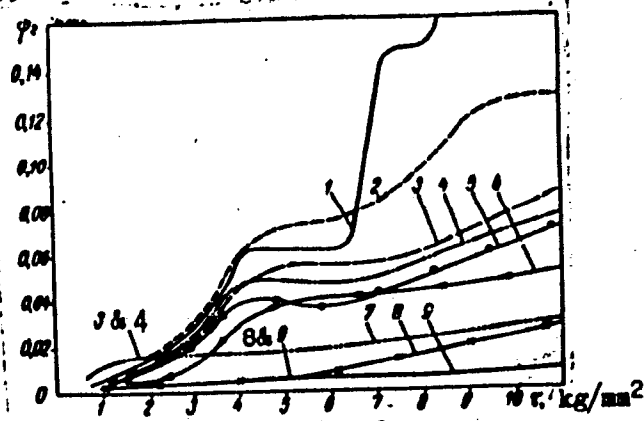


Fig. 1. Coefficient of energy dissipation: 1- normalized steel 45; 2- normalized steel 20; 3- molybdenum cast iron; 4- steel 35KhGS; 5- steel 40KhA; 6- quenched steel 45; 7- cast iron; 8- steel 40G; 9- chrome-nickel steel ST3

Card 4/4

CHERNYAVSKIY, I.; SIMAKOV, G.

Building plans are at the center of attention. Sov.profsoiuzu
8 no.2:45-46 Ja '60. (MIRA 13:2)

1. Predsedatel' mestkoma instituta "Giprostroyindustriya" (for
Chernyavskiy). 2. Zamestitel' predsedatelya mestkoma instituta
"Giprostroyindustriya" (for Simakov).
(Precast concrete construction)

FISHMAN, M.V.; SIMAKOV, G.V.; GOLDIN, B.A.; IVERSEN, Yu.F., otv.red.;
MOROZOVA, A., otv.za vypusk; TSIVUNIN, I., tekhn.red.

[Granitoid intrusions in the upper Bol'shoy Patok, Malyy Patok,
and Torgovaya Valleys (Polar Urals) and the related mineralization]
Granitoidnye intruzii verkhovii Bol'shogo Patoka, Malogo Patoka
i Torgovoi (Fripoliarnyi Ural) i svyazannoe s nimi orudenenie.
Syktyvkar, Komi knizhnoe izd-vo, 1960. 99 p. (Akademiia nauk
SSSR. Komi filial, Syktyvkar. Institut geologii. Trudy, no.1).
(MIRA 15:8)

(Ural Mountains--Rocks, Igneous)
(Ural Mountains--Ore deposits)

SIMAKOV, G.V.

Some characteristics of the formation of basic rocks in the
Neroyka-Patok granitoid massif (Polar Urals). Trudy Inst.geol.
Komi fil. AN SSSR no.2:103-110 '62. (MIRA 15:7)
(Bol'shoy Patok Valley—Granite)

SIMAKOV, G.V., inzh.

Problem concerning pressure fluctuations in a siphon
spillway. Izv. vys. ucheb. zav.; energ. 5 no.10:106-114
0 '62. (MIRA 15:11)

1. Leningradskiy politekhnicheskii institut imeni
M.I. Kalinina. Predstavlena kafedroy gidrotekhnicheskikh
sooruzheniy.

(Hydraulic structures)
(Fluid dynamics)

S/181/63/005/001/043/064
B108/B180

AUTHORS: Al'tshuler, L. V., Pavlovskiy, M. N., Kuleshova, L. V., and Simakov, G. V.

TITLE: Study of alkali metal halides under the high pressures and temperatures of shock compression

PERIODICAL: Fizika tverdogo tela, v. 5, no. 1, 1963, 279-290

TEXT: To investigate the interaction forces of the ions of alkali halide salts the authors studied the shock compression of LiF, KCl, NaI, KBr, and CsI crystals in the pressure range $2 \cdot 10^{10}$ - 10^{12} bar. The pressure was created by exploding a charge which threw a steel plate against a metal screen on the other side of which the sample was attached. Phase transformation of KCl and KBr was observed during the shock compression, probably a transition from NaCl-type structure with coordination number 6 to CsCl-type structure with coordination number 8. There was considerable increase in internal energy of LiF, KBr, and CsI after the compression. The experimental data are used to derive semiempirical equations of state

Card 1/2

L 9433-66 EWT(1) GW

ACC NR: AP5025074

SOURCE CODE: UR/0387/65/000/009/0001/0012

AUTHORS: Trunin, R. F.; Gon'shakova, V. I.; Simakov, G. V.; Galdin, N. Ye. 41
44.55 44.55 44.55 44.55 P

ORG: none

TITLE: A study of rocks under the action of the high pressures and temperatures of shock compression

SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 9, 1965, 1-12

TOPIC TAGS: geophysical research, geophysics, earth science, earth crust, seismology, PETROLOGY
12,44.55

ABSTRACT: A discussion of the results obtained in an experimental study of the shock compressibility of alkaline and ultra-alkaline rocks under various pressures is presented. The theoretical sequence of transitions in the structure of the earth's mantle (see A. E. Ringwood. Mineralogical Constitution of the Deep Mantle, J. Geoph. Res., 67, No. 10, 1962) is discussed in some detail. Eleven alkaline and ultra-alkaline rocks (mineral groups of magnesium, plagioclase, titanomagnetite, chromite, biotite, and serpentine) were used as test specimens.

Cord 1/3

UDC: 550.311;539.89

L 9433-66

ACC NR: AP5025074

0

A table showing the mineral content and density of the rock specimens is included. The method of determining the dynamic compressibility of the substances is based upon the measurement of the kinematic parameters of shock waves: the velocity of propagation of the wave D and the mass velocity of motion of the substance beyond the front U. These quantities are related to pressure according to

$$P = \rho_0 D U$$

and to the degree of compression according to

$$\sigma = \frac{\rho}{\rho_0} = \frac{D}{D - U}$$

where ρ_0 is the initial density and ρ is the density beyond the shock front. The experimental technique of measuring the dynamic compressibility follows the method of reflection (L. V. Al'tshuler, K. K. Krupnikov, and M. I. Vrazhnik. Dinamicheskaya szhimayemost' metallov pri davleniyakh ot 400 000 do 4 000 000 atmosfer. Zh. eksperim. i teor. fiz., 34, vyp. 4, 1958). The experimental results are tabulated, and graphs showing the variation of D vs U are presented. The results were studied in order to compare groupings of the experimental data in an effort to match the P - ρ curve characteristic of the earth. The authors

Card 2/3

L 9433-66

ACC NR: AP5025074

conclude with some deductions of the consistency and uniformity of the B and D layers of the earth's mantle. Orig. art. has: 6 figures, 3 tables, and 3 equations.

SUB CODE: 08/

SUBM DATE: 09Mar65/

ORIG REF: 016/

OTH REF: 019

jw
Card 3/3

L 51544-65 ENT(1)/ENT(m)/EPA(w)-2/EEC(t)/ENP(t)/ENP(b)/EWA(m)-2 Pz-6/P1-4
 ACCESSION NR: AP5010736 IJP(c) JD/JW/AT U1/0181/65/007/004/1212/1215

AUTHOR: Pavlovskiy, M. N.; Vashchenko, V. Ya.; Simakov, G. V.

TITLE: Equation of state of cesium iodide

SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1212-1215

TOPIC TAGS: equation of state, cesium iodide, shock adiabat, electron excitation, thermodynamic property

ABSTRACT: This is a continuation of an investigation of CsI which was started earlier (FTT v. 5, 279, 1963), where its shock compression was investigated up to ~ 1.1 million bars. In the present investigation the range of shock compression was extended to 5.5 million bars in the case of single crystals, and shock compressibility of porous substances was investigated up to 1.6 million bars to obtain complete information on the thermodynamic properties. Single crystals of CsI with density 4.51 g/cm³ and porous samples with density 2.51 g/cm³ (porosity coefficient 1.8) were used, and the test procedure was described in detail in the earlier paper. An equation of state is derived with the aid of the free-volume theory, with allowance for the contribution made to the pair interaction potential by the Van der

Card 1/2

L 51544-65

ACCESSION NR: AP5010736

Waals forces, the Coulomb forces, and the overlap forces. Shock adiabats are plotted under various assumptions and the results prove the large role played by anharmonicity in the thermodynamics of ionic crystals. The contribution of the electron excitation to the thermodynamic quantities is estimated for high temperatures (but lower than the width of the forbidden band). The result that the electrons have a strong influence at high temperatures agrees qualitatively with the earlier data and with the results obtained by others from experiments with CsBr, NaCl, and LiF. Orig. art. has: 1 figure, 5 formulas, and 2 tables.

ASSOCIATION: None

SUBMITTED: 19Oct64

NR REF SOV: 002

ENCL: 00

OTHER: 004

SUB CODE: SS, TD

Card 2/2

SIMAKOV, I., elshchestvennyy inspektor sudokhodstva

How a collision of tow trains was prevented. Rech. transp. 22 no.7:
50 J1 '63. (MIRA 16:9)

(Collision at sea--Prevention)

LOPATIN, M.I., polkovnik; VORONKO, P.G., polkovnik; IVKIN, G.V., polkovnik;
LAKHIN, A.F., podpolkovnik; SIMAKOV, I.I., mayor; GHEDOVETS, P.P.,
redaktor; NYASHNEVA, T.G., tekhnicheskiiy redaktor.

[Manual of methods for training soldiers in topography] Posobie po
metodike topograficheskoi podgotovki soldat. Moskva, Voen.izd-vo
Ministerstva obor. SSSR, 1946, 102 p. (MLRA 9:5)
(Military topography)

LOPATIN, M.I.; VORON'KO, K.P.; IVKIN, O.V.; LAKHIN, A.P.; SIMAKOV, I.I.;
KREKSHIN, N.A., podpolkovnik, red.; MEDNIKVA, A.N., tekhn.red.

[Manual of methods for training soldiers in topography] Posobie
po metodike topograficheskoi podgotovki soldat. Izd.2., perer. i
dop. Moskva, Voen.izd-vo M-va obor.SSSR, 1959. 136 p.
(Military topography) (MIRA 13:8)

SIMAKOV, I.I.

Establish permanent conventional signs! Geod.1 kart.
no.5:71 My '60. (MIRA 13:7)
(Maps--Symbols)

LIVSHITS, V.L., inzh.; SIMAKOV, I.K., inzh.

The SKB-2 loaders. Stroi. i dor. mash. 10 no.3:22-25 Mr '65.
(MIRA 18:5)

SIMAKOV, I. M.

USSR/Engineering - Hydraulics, Dams Oct 51

"Filtration Calculation of Earth Dams on an
Impervious Foundation," I. M. Simakov, Engr

"Gidrotekh Stroi" No 10, pp 5-8

Develops hydraulic method for detn of basic
elements of filtration flow, where path of
ground water is expressed by its actual value
instead of its horizontal projection, which is
mostly used in calcn practice. To facilitate
calcons, curves are plotted for various slopes
of downstream face of dam.

201T100

1. SIMAKOV, I. M., Eng.
2. USSR (600)
4. Embankments
7. Method of finding the most dangerous curve of creep in calculating the stability of embankment slopes. Gidr. stroi. 21 No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

SI MAKOV, I.M., inzhener.

Protecting slopes against erosion. Gidr.stroi. 23 no.4:23 '54.
(Dams) (MLRA 7:7)

98-58-7-15/21

AUTHOR: Simakov, I.M., Engineer

TITLE: Determination of the Volumetric Weight of Morainic Grounds
(Opredeleniye ob'emnogo vesa morennykh gruntov.)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 7, pp 44-45 (USSR)

ABSTRACT: The author proposes the use of water or of a specially prepared pulp, a mixture of clay and water, for determining the volumetric weight of morainic grounds. The hole formed by extraction of test samples of the ground is filled with water or, still better, with pulp from a specially tared container. The test sample is weighed on scales. Knowing its weight and its volume, the volumetric weight is very easily calculated. This method is more preferable than the one proposed by Engineer K.V. Alekseyev (Ref. 1), who used sand to fill the hole. There are 2 Soviet references.

1. Glaciers--Deposits--Volumetric weight--Determination

Card 1/1

SKIPSKIY, P.S., dots., kand. tekhn.nauk; SIMAKOV, I.M., inzh.;
DIVAKOVA, Ye.K., assisten kand. tekhn. nauk; RUBIN,
M.G., assistant; VARLAMOVA, V.A., assistant

[Laboratory work on the strength of materials] Laboratornye
raboty po soprotivleniiu materialov. Gor'kii, 1962. 100 p.
___ [Log of laboratory work on the strength of materials]
Zhurnal laboratornykh rabot po soprotivleniiu materialov.
Gor'kii, 1962. 33 p. (MIRA 16:5)

1. Gorki. Gor'kovskiy inzhenerno-stroitel'nyy institut. Ka-
fedra stroitel'noy mekhaniki.
(Strength of materials)

ACC NR: AP7006770

SOURCE CODE: UR/0102/06/000/000/0003/0006

AUTHOR: Astrov, V. V. (Leningrad); Symakov, I. P. (Leningrad); Simakov, I. P. (Leningrad)

ORG: none

TITLE: Structural synthesis of combined automatic control systems for nonlinear control objects

SOURCE: Avtomatyka, no. 6, 1966, 3-6

TOPIC TAGS: nonlinear automatic control, nonlinear automatic control system, nuclear engineering, nuclear power plant

ABSTRACT: The control law of combined automatic control systems for nonlinear plants is defined by the differential equation of the controlling device. This equation was constructed with the following considerations: a) The invariance of the controlled coordinate with respect to the controlled disturbance $\lambda(t)$; b) The invariance of the controlled coordinate with respect to the program routine $\psi(t)$; c) Required quality of the transfer process. The proper motion of the system relative to the control error satisfies the obtained differential equation. The synthesis of a control system governing the output of a nuclear power plant is included as a specimen calculation. Orig. art. has: 2 figures, 4 formulas.

SUB CODE: 13,18,12/ SUBM DATE: 08Jul66/ ORIG REF: 003/ OTH REF: 001

Card 1/1

SIMAKOV, K.M.; ABDEYEV, M.A.

"Blast-furnace smelting in nonferrous metallurgy" by V.I.Smirnov.

Reviewed by K.M.Simakov, M.A.Abdeev. TSvet.met. 28 no.6:63-64

N-D '55.

(MIRA 10:11)

(Nonferrous metals--Metallurgy) (Smirnov,V.I.)

SIMAKOV, K.; ZAPLAVNIY, A.

Work practice of industry after the reorganization of the administration of the economy. Vop. ekon. no.2:30-35 7 '58. (MIRA 11:3)

1. Predsedatel' Vostochno-Kazakhstanskogo soveta narodnogo khozyaystva (for Simakov). 2. Akademiya nauk Kazakhskoy SSR (for Zaplavnyy).

(Kazakhstan--Economic policy)

AUTHOR: Simakov, K.M., Chairman of Sovmarkhoz 136-58-3-1/11

TITLE: Experience of the East - Kazakhstan Economic Council in the Management of the Non-Ferrous Metallurgical Enterprises of Altay (Opyt Vostochno-Kazakhstanskogo sovmarkhoza po rukovodstvu predpriyatiyami tsvetnoy metallurgii Altaya)

PERIODICAL: Tsvetnyye Metally. 1968. No. 3. pp.1-6 (USSR)

ABSTRACT: The author, Chairman of the East-Kazakhstan Sovmarkhoz (Economic Council) discusses the experience in the management of enterprises working the plentiful non-ferrous metal ore deposits of Altay to produce lead, zinc, cadmium, noble metals, copper and certain rare elements. He names some of the principal enterprises and goes on to describe the steps taken by the Sovmarkhoz to ensure efficient management. These included the establishment of a board for heavy industry (staff of 44) consisting of planning, production, technical and mine-construction departments. A technical-economic council has also been established with economic, mining-and-beneficiation, metallurgical, chemical and rare-metals sections. For working out detailed plans for the reconstruction of the Ust'-Kamenogorskiy lead works, many specialists from all parts of the Soviet Union were invited. All plans are widely discussed, but once adopted are firmly adhered to. Competition has been organized with works of the Karagandinskiy and Yuzhno-Kazakhstanskiy Sovmarkhoz's. The Ictyshskiy combine has been

Card 1/2

136-38-3-1/31

Experience of the East - Kazakhstan Economic Council in the Management of the Non-Ferrous Metallurgical Enterprises of Almaty.

instructed to increase production and treatment of ores by 2 - 2.2 times within the next five or six years, so that advantage may be taken of the relative richness of its ores. A number of engineering and technical personnel have been taken from supervisory work to do research and design work and the system of payments of premium has been revised and the new system presented before the Gosplan of the Kazakh S.S.R. and the state committee on labour and wages of the Council of Ministers of the U.S.S.R. Amalgamation of several departments and the establishment of some new ones has been effected and steps have been taken to produce for monthly examination, operating data for the various enterprises. Among benefits resulting from the measures taken, the author lists: 102.8 - % fulfilment of the 1957 total production plan, this being a 12.4 - % increase over the previous year, the increase in labour productivity being 4.7% more than planned; in the second half of 1957 (i.e. after the adoption of the new system) 16 - and 8 - % increases in ore production and total lead -, zinc -, copper - and cadmium production, respectively. The author refers frequently to the influence of N.S. Khrushchev's report before the Seventh session of the Supreme Council of the U.S.S.R. on these developments.

ASSOCIATION East-Kazakhstan Committee

AVAILABLE: Library of Congress

Card 2/2 1. Industry-USSR 2. Production-USSR 3. Industry-Economic effects

SMIRNOV, V.M.; SIMAKOV, K.M.; ABDEYEV, M.A.; KHAN, O.A.; LUNEV, V.Ye.

Metallurgy in the Altai during the 40 years of Soviet government.
Trudy Alt. GIMNII AN Kazakh. SSR no.7:15-28 '58.

(MIRA 12:7)

(Altai Territory--Nonferrous metals--Metallurgy)

PLANS I BOOK EXPLANATION 807/444

Specialization i kooperativno promyshlennosti; opyt raboty sovetskoykh
(Specialization and Cooperation in Industry; Operating Experience of Councils
of National Economy) Moscow, Gosplanizdat, 1960. 215 p. 5,000 copies printed.
Oss. Ed.: S. I. Shida; Ma.: Th. I. Znamensky, and I. S. Makhovskiy. Tech. Ed.: Ye. S.
Gerasimova.

FOREWORD: This book is intended for persons working on practical problems of
specialization and cooperation within the industry of individual economic
regions.

CONTENTS: The book presents problems of development of specialization and co-
operation within industry in Leningrad, Novosibirsk, Khar'kov, Dnepropetrovsk,
Bereznov, Dneprod, and other Administrative Economic Regions in 1953-1955. This
book is the first attempt to describe the experience of individual National
Economic Councils. No generalizations are made. There are no references.

Economy of a region	78
Development and specialization of establishments	79
Cooperative supplies	82
Investment	85
Prospective development of the chemical industry	88
Simplification of the administrative structure of establishments	94
Development of socialist competition	95

Ch. III. Specialization and Cooperation of Enterprises in Dnepropetrovsk
Economic Administrative Region. Authors: D. O. Lyubimova
and E. M. Zhurav

Ch. IV. Problems of the Material Technical Supply and Specializa-
tion of Enterprises (from the experience of the Khar'kov
Council of National Economy). Author: Ye. S. Makhovskiy

Ch. V. Problems Connected With the Organization and Planning of
Production. Author: Chairman of the Khar'kovskaya
Council of National Economy E. M. Zhurav

Ch. VI. Specialization and Cooperation of Medium and Small Establish-
ments. Author: Research, Candidate of Economic Sciences
E. S. Makhovskiy

Influence of the distance of transportation on the efficiency of
the establishment
Development of the "narrow" (from by item) specialization -
the most important condition for increase of efficiency
Some problems of development of the narrowly specialized
production inside basic and administrative economic regions

Ch. VII. Some Problems Connected With Planning Methods of Regional
Specialization and Cooperation on the Example of Machine
Construction. Author: Candidate of Economic Sciences E. I.
Alshovskiy

Organization of work on planning specialization and cooperation

On methods of developing a plan of measures for specialization
and cooperation
Planning specialized narrow productions on the example of
machine building

STATISTICS: Library of Congress

SIMAKOV, K.M.

Nonferrous metallurgy in the Rudnyy Altai. Tsvet. met. 33 no.9:
13-20 S '60. (MIRA 13:10)

(Altai Mountains--Nonferrous metals--Metallurgy)

GUSEV, V.Ye., prof.; SIMAKOV, K.S., aspirant

Effect of preliminary thermal processing on the technological characteristics of "lavan." Tekst.prom. no.2:39-45 F '63. (MIRA 16:4)

1. Moskovskiy tekstil'nyy institut (MTI).
(Textile fibers, Synthetic—Testing)

GORBUNOV, V.; GRISHIN, A; SIMAKOV, M.

Plan-model of the harbor in the dispatcher room. NTO 2
no.7:45 J1 '60. (MIRA 13:7)

1. Chleny Nauchno-tehnicheskogo obshchestva vodnogo
transporta, Novosibirsk.
(Novosibirsk--Harbors)

GENKEN, I.; SIMAKOV, M.

What practice of the Novosibirsk Metallurgical Plant proves.
Sots.trud 6 no.5:113-118 My '61. (MIPA 14:6)

1. Nachal'nik otdela organizatsii truda Novosibirskogo metallurgicheskogo zavoda imeni A. N. Kuz'mina (for Genken).
2. Nachal'nik otdela tekhnicheskogo kontrolya Novosibirskogo metallurgicheskogo zavoda imeni A. N. Kuz'mina (for Simakov).
(Novosibirsk--Steel industry--Quality control)

SIMAKOV, M.P., inzh.

Increasing the output of the D-225B asphalt-concrete mixers.

Avt. dor. 27 no.8:6-7 Ag '64.

(MIRA 17:12)

1. SIMAKOV, N.
2. USSR (600)
4. Fruit Culture - Krasnoyarsk
7. Cooperative orchards in Krasnoyarsk. Sad i og. No. 10, 1952.

9. Monthly List of Russian Accessions, Library of Congress, January, 1953. Unclassified.

AID P - 3106

Subject : USSR/Aeronautics

Card 1/1 Pub. 58 - 11/19

Author : Simakov, N.

Title : In the Stalinabad aviation technical club

Periodical : Kryl. rod., 8, 16, Ag 1955

Abstract : The author, an instructor at the above-mentioned club, briefly describes some of the club activities. Photos, names.

Institution : 1. Stalinabad Aviation Technical Club, 2. DOSAAF

Submitted : No date

SIMAKOV, N.G.

Contribution of the communication workers of Zyryanovsk to the
regional administration. Vest. sviazi 22 no.11:22-23 N '62.
(MIRA 16:12)

1. Nachal'nik Zyryanovskoy kontory svyazi Vostochno-Kazakhstanskoy
oblasti.

SIMAKOV, N.G.

Welding of connectors using a melting technique. Avtom.,
telem. i svyaz' 7 no.10:33 0 '63. (MIRA 16:11)

1. Starshiy elektromekhanik Ilanskoy dstantsii signalizatsii
i svyazi Vostochno-Sibirskoy dorogi.

MILGROM, Ya. I.; GINSBURG, A. I.; L. SAV, D. I.

Some problems in optical distance measurement. (Sov. J. Opt. Eng.).
no. 1:11-17. Ja. 1974. (MIRA 17:9)

С. 1. С. 1.

С. 2.

"Transition to a new irrigation system and reorganization of the water regime on collective farms." Reviewed by B. Arkad'yev. Khlopkovodstvo no. 12, 1991.

9. Monthly List of Russian Accessions, Library of Congress, August 1953₂, Uncl.

BIKHENTAYEV, M.-G.K.; SIMAKOV, P.G.; BERSHOV, Ye.F.; TARASHCHIK, A.D.

Combination truck and rail transportation in the Sibay pit. Gor.
zhur.no.8:40-42 Ag '63. (MIRA 16:9)

1. Upravleniye ~~tsvetnoy~~ metallurgii Sredno-Volzhskogo sojeta narodnogo
khozyaystva (for Bikhentayev). 2. Bashkirskiy mednesernyy kombinat
(for Simakov, Bershov, Tarashchik).

KHOKHRYAKOV, V.S.; SERGIN, I.S.; KORMILITSEV, V.A.; STERNIN, I.S.

Economic effectiveness of using skip hoists at the Sibay Mine.
Ger. zhur. no. 8:15-16 3 '65. (MIRA 18:2)

1. Sverdlovskiy gornyy institut (for Khokhryakov, Sergin,
Kormilitsev). 2. Bashkirskiy mekano-gornyy kombinat (for Sternin).

BUKIMAN, Ya.Z.; MUTAYEV, R.S.; BIRCHENTAYEV, G.K.; SIMAKOV, P.G.; GALKIN, A.M.

Improvement of working conditions in strip mines. Bezop.truda v
prom. 9 no.4:15-16 Ap '65. (MIRA 18:5)

SIMAKOV, P.I. (Moscow)

New programs for the improvement of professional qualifications of
physics teachers. Fiz. v shkole 14 no.4:76-79 J1-Ag '54.(MLRA 7:7)
(Physics--Study and teaching) (Teachers, Training of)

SIMAKOV, P. P.

USSR/ Miscellaneous - Book review

Card 1/1 Pub. 133 - 19/21

Authors : Gubin, N. M.; Simakov, P. P.; and Barsuk, V. A.

Title : P. P. Fayngluz, "Technical Standardization in Communication Establishments,"
State Publishing House for Communications and Radio Literature, Moscow

Periodical : Vest. svyazi 3, page 32, Mar 1955

Abstract : A constructive criticism is presented of P. P. Fayngluz's book entitled, "Technical Standardization in Communication Establishments," dealing in standardization of operations in erecting and repairing telephone and telegraph lines, standardization of work of the telephone and telegraph operators, and the organization of work in compiling technical standards. Some of the shortcomings of the book are pointed out and a request is made for a revised publication.

Institution :

Submitted :

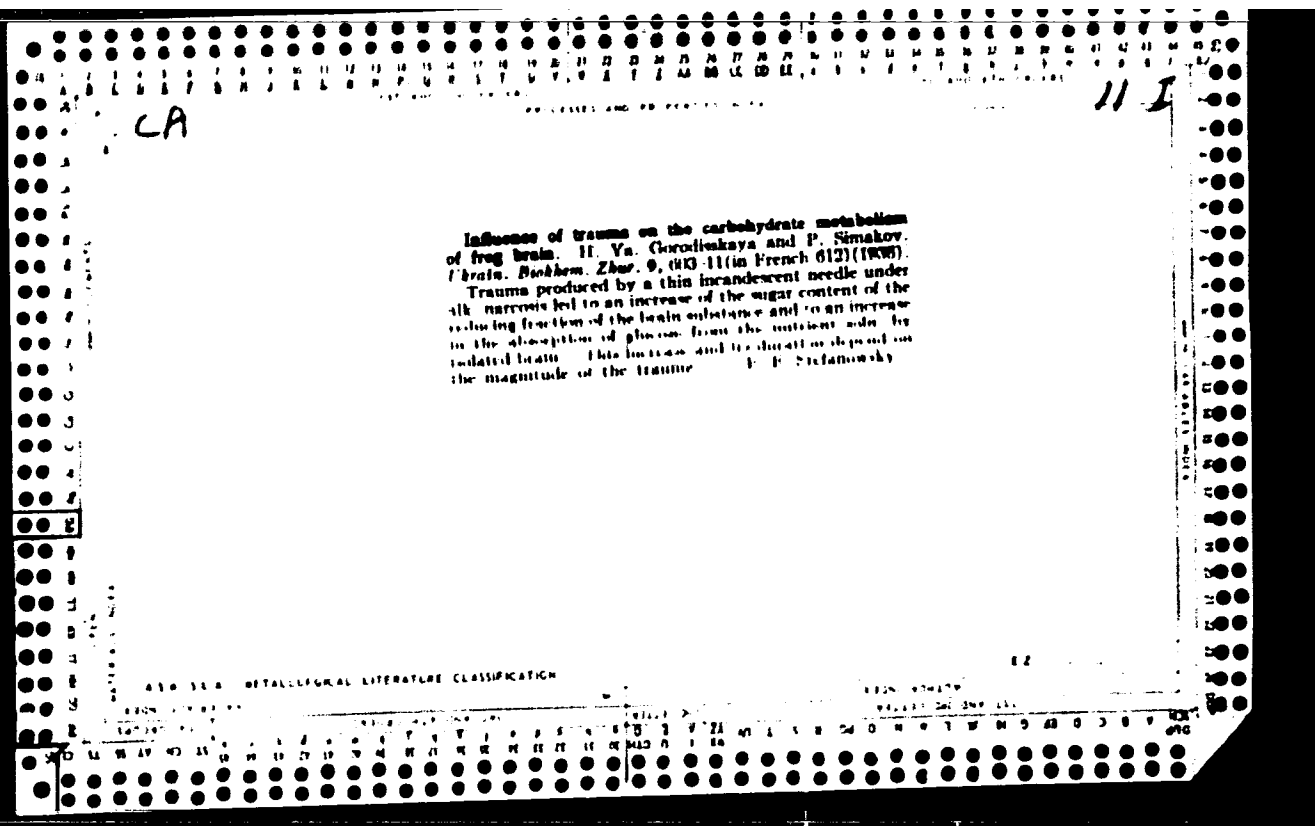
1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
<p>Processes and Properties Index</p> <p>012</p> <p>- Extractives of flesh of white bears. N. Tolkahevskaya and P. Sinakov. <i>Bull. biol. med. exp. U. R. S. S. S. 1, 13-14(1958); Physiol. Abstracts 21, 730.</i> -The authors criticize other workers who report the presence of carnosine and anserine in one and the same animal. In the flesh of the white bear carnosine, but not anserine, was found to be present. E. Bame</p>																																																			
<p>ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																																																			
<p>1ST AND 2ND LETTERS</p>																																																			
<p>3RD AND 4TH LETTERS</p>																																																			

11A

Zinc content of muscles of various animals. P. Y. Sushkov. *Biofizicheskiy Zhurnal* 1, 1965 91(1965). The Zn content, in mg. per 100 g. of dry substance, is: earthworm 28.46, mollusk foot 28.5, mantle 105.2, frog 8.6, fish 3.3-4.2, chicken (red) 14.1, (white) 2.9, human pectoral muscle 11.9. H. C. A.

Chair of Biochemistry of the Dnieper State Med. Inst.

ASB-55A METALLURGICAL LITERATURE CLASSIFICATION



ca

11P

PROCESSES AND PROPERTIES INDEX

Influence of Zn on the activity of the catalase and peroxidase of rabbit blood. P. V. Gilmov. *Bull. Acad. Sci. USSR Div. Chem. Sci. B*, No. 1, 73-8 (1911); *Chem. Zvesti.* 1945, 11, 911; cf. *C. A.* 38, 2278. — ZnCl₂ or ZnSO₄, 0.0025–0.006 M, decreases the activity of the catalase of human and rabbit blood and dog and stallion semen. The temp. coeff. of the catalase is increased. Lower concns. of Zn salts have no such effects. The activity of rabbit blood peroxidase is increased 30–40% by 0.006 M Zn salt, without change in the temp. coeff. In either case the action of the Zn salt is probably on the colloidal carrier part of the enzyme. L. E. Gilson

ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

FROM SOURCE

EXTRACT ONE TWO SIX

Determination of peroxidase activity in blood. P. V. Smakov (Med. Inst., Gorki, Russia) *Biochim.* 10, 360 3 (1965). -- From 0.01 N indigo carmine (23.31 g. per l.) a 0.001 N soln. is prepd. just before use (titration is necessary). The titer is detd. by acidifying 10 cc. of the approx. 0.001 N indigo carmine soln. with 5 cc. of 1 N H₂SO₄, and titrating with 0.001 N KMnO₄ until the

color changes from green to a pure yellow. To a test tube, add 2 cc. of an acetate buffer of pH 4.7, 3 cc. of a soln. of blood (1:1,000), and 3 cc. of water. Mix. Add 1 cc. of 0.001 N indigo carmine. Mix, add 2 cc. of 0.2 N H₂O₂, mix, note time, and as soon as the blue has changed to a pure-yellow color, the oxidation is considered at an end. The time necessary for the oxidation of the indigo carmine is a measure of the peroxidase activity. The method is accurate to 5%. Since the peroxidase action of the blood is related to the amt. of hemoglobin, and the latter varies with different people, for purposes of comparison, the peroxidase activity is divided by the percentage of hemoglobin. For convenience, this index is multiplied by 100. In normal people, the peroxidase activity of the blood varies from 61 to 95 sec. (index, 95-134) at 0°, and from 34 to 47 sec. (index, 53-69) at 10°.

118
Chin Organic
Chemistry -

ST 100, P. 1.

1970. Značien po belke 15 km v okolí jaznoy i k. jaznoy punkti i krosi. tr.
 ANU SR, t. 1977, voprosy pitania, v. 2.

SIMAKOV, P.V.

U S S R .

Importance of globin and hem in nutrition. P. V. Simakov (Inst. Nutrition Acad. Med. Sci. U.S.S.R. Moscow). *Voprasy Fiziol.* 13, No. 1, 7-11(1968). Guinea pigs fed a diet contg. 1.7% protein (yeast) lost over 25% of their body wt. The addn. of 16% purified bovine globin to the diet did not improve the condition, though their behavior was as normal as that of animals receiving 17.7% casein. Addn. of isoleucine to the diet contg. 16% globin and 1.7% yeast proteins during 4 days increased the body wt. of the animals about 1.5-4 g./day/animal. The addn. of globin to the diet slightly increased the amts. of blood globin and hematin, quite significantly increased the amt. of stroma proteins, and showed no effect on the catalase activity of the blood. The addn. of 80 mg. hem to the diet of the animals, receiving 9% casein following the protein-poor diet, increased greatly the body wt. of the animals, the amt. of hematin in the blood, and slightly increased the amts. of blood globin and stroma proteins, showing no effect on the catalase activity. B. W.

Laboratory of Physiology of the Nutrition of Growing Organisms,

USSR/Medicine - nutrition

FD-3058

Card 1/1 Pub. 141 - 4/23

Author : Simakov, P. V.

Title : The effect of quality and quantity of proteins in the diet on the thermal stability of certain enzymes containing iron

Periodical : Vop. pit., 22-26, May/June 1955

Abstract : Qualitative and quantitative protein deficiencies in the diet of white rats results in a significant decrease in catalase and peroxidase activity in the blood after heating in the zone of inactivation. This method of estimation, resulting in protein deficiency, is more sensitive than the conventional method of determining catalase and peroxidase activity in the blood. Four tables; two references (both USSR; one since 1940).

Institution : Laboratory of the Physiology of Nutrition of the Growing Organism (Head - Cand Biol Sci P. V. Simakov) Inst of Nutrition Acad Med Sci USSR, Moscow

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Abs Jour: Ref Zhur-Biol., No 6, 1958, 26633.

Author : P.V. Simakov, Z.A. Kasperskaya and V.V. Kochegina

Inst :

Title : The Significance of Certain Amino Acids in the
Diet of Growing Organism.

Orig Pub: P diatriya, 1957, No 7, 63-65.

Abstract: When puppies were kept for several months on a diet poor in tryptophan, the growth of the animals was checked, and there was a reduction in the content of albumin, γ -globulins and globin in the blood and a decrease in the A/G coefficient. In experiments on rats in which tryptophan, methionine and lysine were eliminated from the diet, a reduction was observed in the amount of arylase excreted in the

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1. Iz laboratorii fiziologii pitaniya rastushchego organizma (zav. - P.V.Simakov) Instituta pitaniya AMN SSSR, Moskva.

(GLUTAMATES, effects,

l-glutamic acid, dietary, eff. on blood pigments & body weight in growing rats (Rus))

(HEMOGLOBIN,

eff. of l-glutamic acid on composition & content in growing rats (Rus))

(PIGMENTS, in blood,

same)

(BODY WEIGHT,

eff. of dietary l-glutamic acid in growing rats (Rus))